



ITW

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**(Attorney Docket No. BP 3353)**

In the Application of:  
Henrik T. Jensen

Serial No.: 10/821,057

Filed: 04/08/2004

For: Hardware Efficient RF Transceiver  
I/Q Imbalance Compensation Based  
Upon Taylor Approximation

§ Group Art Unit: Unknown

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§ Examiner: Unknown

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**Certificate of Mailing**

I hereby certify that this response is being deposited in the US Mail with sufficient First Class Postage and is being Addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 under 37 C.F.R. 1.8 on November 5, 2004.

By: 

Sherry L. McWhinnie

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please insert the enclosed *Power of Attorney and Correspondence Address Indication Form* and *Certificate Under 37 C.F.R. §3.73(b)* in the file for the above-referenced application.

In addition to the aforementioned, please also find enclosed the following:

1. Copy of Assignment Document executed by the inventor on April 7, 2004;
2. Signature authority letter for Dee Henderson; and
3. Return Postcard.

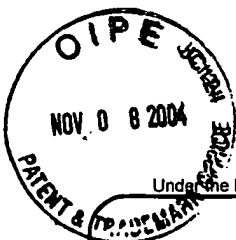
Please direct all correspondence regarding the foregoing to the undersigned attorney.

Date: November 5, 2004

By: 

James A. Harrison, Reg. 40,401  
Attorney for Applicant

**Garlick Harrison & Markison**  
P.O. Box 670007  
Dallas, Texas 75367  
(214) 902-8100/office  
(214) 902-8101/fax



**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/821,057
Filing Date	4/8/2004
First Named Inventor	Henrik T. Jensen, Ph.D.
Title	Hardware Efficient RF Transceiver I/Q Imbalance Compensation Based Upon Taylor Approximation
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BP 3353

I hereby appoint:



Practitioners associated with the Customer  
Number:

34,399

OR



Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:



The address associated with the above-mentioned Customer Number:

OR



The address associated with Customer Number:

OR

<input checked="" type="checkbox"/> Firm or Individual Name	JAMES A. HARRISON				
Address	P.O. BOX 670007				
City	DALLAS	State	TX	Zip	75367
Country	USA				
Telephone	214-902-8100	Fax	214-902-8101		

I am the:



Applicant/Inventor.



Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37-CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	11/4/2004
Name	Dee Henderson	Telephone	949 926 5958
Title and Company	Manager, Intellectual Property Portfolio; Broadcom Corporation		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.



\*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



BP3353

Certificate Under 37 CFR 3.73(b)

Applicant: Henrik T. Jensen, Ph.D.

Entitled: **HARDWARE EFFICIENT RF TRANSCEIVER I/Q IMBALANCE COMPENSATION BASED UPON TAYLOR APPROXIMATION**

Application No. 10/821,057

Filing Date: 4/8/2004

**Broadcom Corporation**

(Name of Assignee)

**a, California Corporation**

(Type of Assignee)

states that it is :

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either :

- A. ☒ An Assignment for the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title for the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

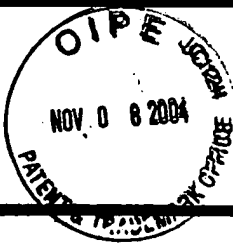
The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 11/04/2004

Name: Dee Henderson

Title: Manager, Intellectual Property Portfolio

Signature: 



**BROADCOM CORPORATION**  
16215 Alton Parkway  
Irvine, California 92618

Phone: 949-450-8700  
Fax: 949-450-8710

May 20, 2003

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Intellectual Property Portfolio Manager, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

A handwritten signature in cursive script, appearing to read 'H Samueli'.

Henry Samueli, Ph.D.  
Chief Technical Officer and Co-Chairman

**ASSIGNMENT**

**WHEREAS**, the undersigned inventors, hereinafter called the "Assignors", have invented a new and useful invention entitled:

**HARDWARE EFFICIENT RF TRANSCEIVER I/Q IMBALANCE COMPENSATION BASED UPON  
TAYLOR APPROXIMATION**

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

**WHEREAS**, **Broadcom Corporation** , a USA company having a principal office and place of business at, 16215 Alton Parkway Irvine California 92618-7013 hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

**NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

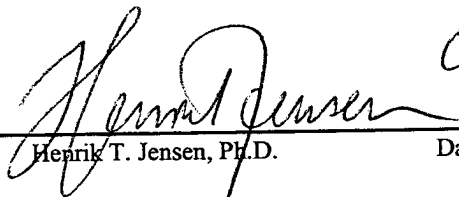
**FURTHER**, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional

papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

**IN TESTIMONY WHEREOF**, the Assignors have hereunto set their hands on the date indicated below.

 04/07/04

Henrik T. Jensen, Ph.D.

Date

Date

Date

Date

Date

Date